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(54) Title: A METHOD FOR SINTERING A CARBON STEEL PART USING A HYDROCOLLOID BINDER AS CARBON SOURCE.

(57) Abstract: The invention refers to a new method for preparing sintered structural parts of carbon or tool steels or high speed steel having a carbon content of up to 2 % by weight, wherein an agglomerated spherical powder comprising at least 0.5 % of a thermo-reversible hydrocolloid is pressed to a green body of high density which is then heated at 450-650 °C to remove the non-carbon content of the hydrocolloid and subsequently sintered at about 1100-1400 °C to structural parts having high strength properties.

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